- 6 multi-value keys being arranged to form part of the QWERTY configuration, the at least
- 7 nine multi-value keys further being arranged so as to emulate at least a portion of
- 8 telephone keypad arrangement.

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- 31. The keyboard of claim 30, wherein the at least nine multi-value keys are
- 2 arranged in at least three rows, each row comprising at least three multi-value keys.
- 32. The keyboard of claim 31, wherein the at least three rows comprise:
 - a first row comprising multi-value keys associated with numeric values of 1, 2, and 3;
 - a second row comprising multi-value keys associated with numeric values of 4, 5, and 6; and
 - a third row comprising multi-value keys associated with numeric values of 7, 8, and 9.
- 33. The keyboard of claim 32, further comprising a tenth multi-value key
- 2 associated with at least a primary value and a numeric secondary value of 0, wherein
- the tenth multi-value key is arranged in a fourth row.
 - 34. The keyboard of claim 31, wherein the at least three rows comprise:

2	a first row comprising multi-value keys associated with at least three primary
3	values selected from the group consisting of Q, W, E, R, T, Y, U, I, O,
4	and P, and further associated with numeric values of 1, 2, and 3;
5	a second row comprising multi-value keys associated with at least three primary
6	values selected from the group consisting of A, S, D, F, G, H, J, K, L,
7	and ";", and further associated with numeric values of 4, 5, and 6; and
8	a third row comprising alphabetic/numeric multi-value keys associated with at
9	least three primary values selected from the group consisting of Z, X,
0	C, V, B, N, M, ",", and ".", and further associated with numeric values
1	of 7, 8, and 9.

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35. The keyboard of claim 31, wherein the at least three rows comprise:
a top row comprising multi-value keys associated with numeric values of 1, 2,
and 3;

a middle row comprising multi-value keys associated with numeric values of 4, 5, and 6; and

a bottom row comprising multi-value keys associated with numeric values of 7, 8, and 9.

36. The keyboard of claim 31, wherein the plurality of keys further comprises at least one additional multi-value key associated with at least a primary value and a

- 3 secondary value, the additional multi-value key being arranged to form part of the
- 4 QWERTY configuration, the at least one additional multi-value key further being
- 5 arranged in a fourth row, so that the at least nine multi-value keys and the at least one
- 6 additional multi-value keys collectively emulate a telephone keypad arrangement.
- 37. The keyboard of claim 36, wherein the at least one additional multi-value key is associated with a numeric value of 0.
 - 38. The keyboard of claim 31, wherein the plurality of keys further comprises at least three additional multi-value keys, each associated with at least a primary value and a secondary value, the at least three additional multi-value keys being arranged to form part of the QWERTY configuration, the at least three additional multi-value keys further being arranged in a fourth row, so that the at least nine multi-value keys and the at least three additional multi-value keys collectively emulate a telephone keypad arrangement.
 - 39. The keyboard of claim 38, wherein the at least three rows comprise:
- a first row comprising multi-value keys associated with numeric values of 1, 2,
- 3 and 3;

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- a second row comprising multi-value keys associated with numeric values of 4,
- 5 5, and 6; and

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6	a time fow comprising multi-value keys associated with numeric values of 7, 6,
7	and 9;
8	and wherein the fourth row comprises multi-value keys associated with
9	secondary values of *, 0 and #.
1	40. The keyboard of claim 38, wherein the at least three rows comprise:
2	a top row comprising multi-value keys associated with numeric values of 1, 2,
3	and 3;
4	a second row, below the top row, comprising multi-value keys associated with
5	numeric values of 4, 5, and 6; and
\ ⁶ /	a third row, below the second row, comprising multi-value keys associated with
	numeric values of 7, 8, and 9;
8	and wherein the fourth row, located below the third row, comprises multi-value
9	keys associated with secondary values of *, 0 and #.
1	41. The keyboard of claim 30, wherein the at least nine multi-value keys
2	comprise at least one selected from the group consisting of:
3	a key associated with a primary value of Y and a numeric value of 1;
4	a key associated with a primary value of U and a numeric value of 2;

a key associated with a primary value of I and a numeric value of 3;

- a key associated with a primary value of H and a numeric value of 4;
- a key associated with a primary value of J and a numeric value of 5;
- a key associated with a primary value of K and a numeric value of 6;
- a key associated with a primary value of B and a numeric value of 7;
- a key associated with a primary value of N and a numeric value of 8; and
- a key associated with a primary value of M and a numeric value of 9.
- 1 42. The keyboard of claim 41, further comprising a multi-value key associated
- 2 with at least a numeric value of 0.
 - 18. In a handheld device that serves as both a data entry device and a wireless telephone, a keyboard comprising:
 - a plurality of keys arranged in a QWERTY configuration;
- 4 wherein the plurality of keys comprises at least nine multi-value keys, each
- associated with at least a primary value and a numeric secondary value, the at least nine
- 6 multi-value keys being arranged in at least three rows, each row comprising at least
- 7 three multi-value keys.
- 1 44. The keyboard of claim 43, wherein the plurality of keys further comprises at
- least one additional multi-value key, associated with at least a primary value and a
- 3 secondary value, the at least one multi-value key being arranged in a fourth row.

- 45. The keyboard of claim 44, wherein the secondary value of the additional multi-value key is 0.
- 46. The keyboard of claim 43, wherein the plurality of keys further comprises at
- least three additional multi-value keys, each associated with at least a primary value
- and a secondary value, the at least three multi-value keys being arranged in a fourth
- 4 row.
 - 47. The keyboard of claim 46, wherein the secondary values of the at least three additional multi-value keys are *, 0, and #.
 - 48. The keyboard of claim 43, wherein each primary value comprises an alphabetic value.
- 1 49. The keyboard of claim 43, wherein the plurality of keys arranged in the
- 2 QWERTY configuration further comprises at least one multi-value key associated with
- 3 at least a primary value and a non-alphabetic non-numeric secondary value.
- 50. The keyboard of claim 49, wherein the multi-value keys associated with
- 2 numeric secondary values are visually distinguishable from the at least one multi-value
- 3 key associated with a non-alphabetic non-numeric secondary value.

- 51. The keyboard of claim 50, further comprising a mark on each multi-value
- 2 key associated with a numeric secondary value.
- 52. The keyboard of claim 50, further comprising an arc-shaped mark on each
- 2 multi-value key associated with a numeric secondary value.
- 53. The keyboard of claim 50, further comprising a mark on each multi-value
- 2 key not associated with a numeric secondary value.
 - 54. The keyboard of claim 50, further comprising a mark adjacent to each multivalue key associated with a numeric secondary value.
- 55. The keyboard of claim 50, further comprising an arc-shaped mark adjacent to each multi-value key associated with a numeric secondary value.
- 56. The keyboard of claim 50, further comprising a mark adjacent to each multivalue key not associated with a numeric secondary value.
- 57. The keyboard of claim 50, further comprising a mark enclosing the set of multi-value keys associated with numeric secondary values.
- 58. The keyboard of claim 50, further comprising a mark enclosing the set of at least one multi-value key not associated with a numeric secondary value.

- 59. The keyboard of claim 49, wherein at least a portion of each multi-value key
- 2 associated with a numeric secondary value is a first color, and at least a portion of each
- 3 multi-value key associated with a non-alphabetic non-numeric secondary value is a
- 4 second color different from the first color.

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- 60. The keyboard of claim 49, further comprising a first region having a first background color and a second region having a second background color different from the first background color, the first region comprising at least one multi-value key associated with a numeric secondary value, the second region comprising at least one multi-value key associated with a non-alphabetic non-numeric secondary value.
- 61. The keyboard of claim 60, wherein each multi-value key located within the first region has the first background color, and each multi-value key located within the second region has the second background color.
- 62. The keyboard of claim 49, wherein the multi-value keys associated with numeric secondary values are tactilely distinguishable from the at least one multi-value key associated with a non-alphabetic non-numeric secondary value.
- 63. The keyboard of claim 49, further comprising a tactile feature on each multivalue key associated with a numeric secondary value.

- 1 64. The keyboard of claim 63, wherein each tactile feature comprises a bump.
- 1 65. The keyboard of claim 63, wherein each tactile feature comprises a ridge.
- 66. The keyboard of claim 63, wherein each tactile feature comprises a knob.
- 1 67. The keyboard of claim 49, further comprising a tactile feature adjacent to 2 each multi-value key associated with a numeric secondary value.
 - 68. The keyboard of claim 67, wherein each tactile feature comprises a bump.
 - 69. The keyboard of claim 67, wherein each tactile feature comprises a ridge.
 - 70. The keyboard of claim 67, wherein each tactile feature comprises a knob.
- 71. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value is a first shape, and each multi-value key not associated with a numeric
- 3 value is a second shape different from the first shape.
- 72. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value comprises a first material, and each multi-value key not associated with
- a numeric value comprises a second material different from the first material.

- 73. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value is backlit and each multi-value key not associated with a numeric value
- 3 is not backlit.
- 74. The keyboard of claim 49, wherein each multi-value key not associated with
- a numeric value is backlit and each multi-value key associated with a numeric value is
- 3 not backlit.
 - 75. The keyboard of claim 49, wherein each multi-value key associated with a numeric value is backlit in a first color, and each multi-value key not associated with a numeric value is backlit in a second color different from the first color.
 - 76. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value is backlit at a first brightness level, and each multi-value key not
- associated with a numeric value is backlit at a second brightness level different from the
- 4 first brightness level.
- 77. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value has a first level of translucency, and each multi-value key not associated
- 3 with a numeric value has a second level of translucency different from the first level of
- 4 translucency.

- 78. The keyboard of claim 49, wherein each multi-value key associated with a
- 2 numeric value has a first level of transparency, and each multi-value key not associated
- with a numeric value has a second level of transparency different from the first level of
- 4 transparency.
- 79. The keyboard of claim 49, wherein the device issues an audible signal
- 2 responsive to a multi-value key associated with a numeric value being depressed, and
- does not issue an audible signal responsive to a multi-value key not associated with a
- 4 numeric value being depressed.
 - 80. The keyboard of claim 49, wherein the device issues an audible signal responsive to a multi-value key not associated with a numeric value being depressed, and does not issue an audible signal responsive to a multi-value key associated with a numeric value being depressed.
- 81. The keyboard of claim 49, wherein the device issues a first audible signal
- 2 responsive to a multi-value key associated with a numeric value being depressed, and
- issues a second audible signal, different from the first audible signal, responsive to a
- 4 multi-value key not associated with a numeric value being depressed.
 - 82. The keyboard of claim 49, further comprising:

2	for at least one multi-value key associated with a numeric secondary value, a
3	label identifying the secondary value, the label having a first color; and
4	for at least one multi-value key associated with a non-alphabetic non-numeric
5	secondary value, a label identifying the secondary value, the label
6	having a second color different from the first color.
1	83. The keyboard of claim 49, wherein at least one non-alphabetic non-numeric secondary value comprises a punctuation mark.
1	84. The keyboard of claim 43, wherein the device further comprises a processor,
2	for interpreting user activation of a multi-value key as one of the values of the activated
	multi-value key.
1	85. The keyboard of claim 43, wherein the device interprets user activation of a multi-value key as one of the values of the activated multi-value key.
1	86. The keyboard of claim 43,
2	wherein the keyboard is adapted to detect key presses by a user; and
3	wherein, responsive to the keyboard detecting a key press of a multi-value key,
4	the device interprets the key press as one of the values of the pressed
5	key.

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87. The keyboard of claim 86, further comprising:

- a modifier key, for specifying which value of a multi-value key is intended.
- 1 88. The keyboard of claim 87, wherein, responsive to the keyboard detecting a
- 2 key press of the modifier key, the device interprets a subsequent key press of a multi-
- 3 value key as the secondary value of the pressed multi-value key.
- 89. The keyboard of claim 87, wherein, responsive to the keyboard detecting the
- 2 modifier key being held in a pressed position while a multi-value key is pressed, the
- device interprets the key press of the multi-value key as the secondary value of the
- 4 pressed multi-value key.
 - 90. The keyboard of claim 87, wherein:
 - the keyboard has at least two modes, including a first mode in which the device interprets a key press as the primary value of the pressed key, and a
 - second mode in which the device interprets a key press as the
- secondary value of the pressed key, and
- wherein, responsive to the keyboard detecting a key press of the modifier key,
- the keyboard switches from one of the modes to another of the modes.
- 1 91. The keyboard of claim 43, wherein:
- the keyboard has at least two modes, including a first mode in which the device
- interprets a key press as the primary value of the pressed key, and a

4	second mode in which the device interprets a key press as the
5	secondary value of the pressed key.
1	92. The keyboard of claim 43, further comprising:
2	a modifier key, for specifying which value of a multi-value key is intended.
1	93. The keyboard of claim 43, wherein each key in the plurality of keys arranged
2	in a QWERTY configuration is associated with an alphabetic value and a secondary
3	value.
1.	94. The keyboard of claim 43, wherein the handheld device comprises an e-mail
X	device.
1	95. The keyboard of claim 43, wherein the handheld device comprises an e-mail
2	device adapted to operate in conjunction with a wireless network.
1	96. The keyboard of claim 43, wherein:
2 .	for each of at least a subset of the multi-value keys, the keyboard further
3	comprises a label identifying at least the primary value and the
4	numeric secondary value of the multi-value key.
1	97. The keyboard of claim 96, wherein each label is printed on the corresponding
2	key.

- 98. The keyboard of claim 96, wherein each label is printed adjacent to the corresponding key.
- 1 99. The keyboard of claim 43, wherein the handheld device further comprises a
- telephone dialing component, for, responsive to user activation of a sequence of keys
- 3 having numeric secondary values, dialing a telephone number specified by the key
- 4 sequence.
 - 100. The keyboard of claim 43, wherein each key in the plurality of keys is tilted at a substantially common angle.
 - 101. The keyboard of claim 43, wherein each key in the plurality of keys is oval shaped.
- 1 102. The keyboard of claim 43, wherein the handheld device further serves as an e-mail device.
- 1 103. The keyboard of claim 43, wherein the plurality of keys further comprises at
- least one additional multi-value key, associated with a primary value and a secondary
- value, the at least one additional multi-value key being arranged in a fourth row.

- 1 104. The keyboard of claim 43, wherein the plurality of keys further comprises at
- least three additional multi-value keys, each associated with a primary value and a
- 3 secondary value, the at least three additional multi-value keys being arranged in a
- 4 fourth row.

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105. In a handheld device that serves as both a data entry device and a wireless telephone, a keyboard comprising:

a plurality of keys arranged in a QWERTY configuration;

wherein the plurality of keys comprises at least ten multi-value keys, each associated with at least a primary value and a secondary value, the at least ten multi-value keys being arranged in at least four rows, wherein at least three of the rows each comprise at least three multi-value keys.

- 106. The keyboard of claim 105, wherein the plurality of keys arranged in the QWERTY configuration further comprises at least one multi-value key associated with at least a primary value and a non-alphabetic non-numeric secondary value.
- 1 107. The keyboard of claim 106, wherein the at least ten multi-value keys are
 2 visually distinguishable from the at least one multi-value key associated with a non3 alphabetic non-numeric secondary value.

1	100. Ili a lialidileid device, a keyboard comprising.
2	a plurality of keys arranged in a QWERTY configuration;
3	wherein the plurality of keys comprises at least nine multi-value keys, each
4	associated with at least a primary value and a numeric secondary value, the at least nine
5	multi-value keys being arranged in:
6	a top row comprising multi-value keys associated with numeric values of 1, 2,
k_{\perp}	and 3;
A C	λ a middle row comprising multi-value keys associated with numeric values of 4,
9	5; and 6; and
10	a bottom row comprising multi-value keys associated with numeric values of 7,
11	8, and 9.
1	109. A handheld device that serves as both a data entry device and a wireless
2	telephone, comprising:
3	a keyboard comprising a plurality of keys arranged in a QWERTY configuration,
4	the plurality of keys comprising at least nine multi-value keys, each
5	associated with at least an primary value and a numeric secondary
6	value, the at least nine multi-value keys being arranged in at least three
7	rows, each row comprising at least three multi-value keys; and

a processor, coupled to the keyboard, for processing user input received via the keyboard.

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110. The device of claim 109, further comprising:

a transceiver, coupled to the processor, for transmitting and receiving e-mail messages.

111. The device of claim 109, further comprising:

a transceiver, coupled to the processor, for transmitting and receiving e-mail messages via a wireless network.